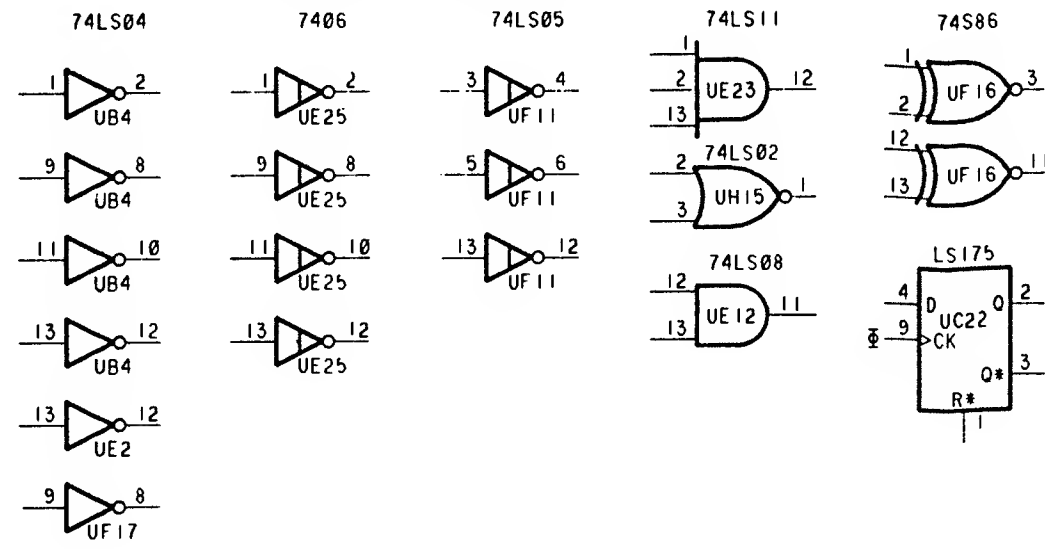
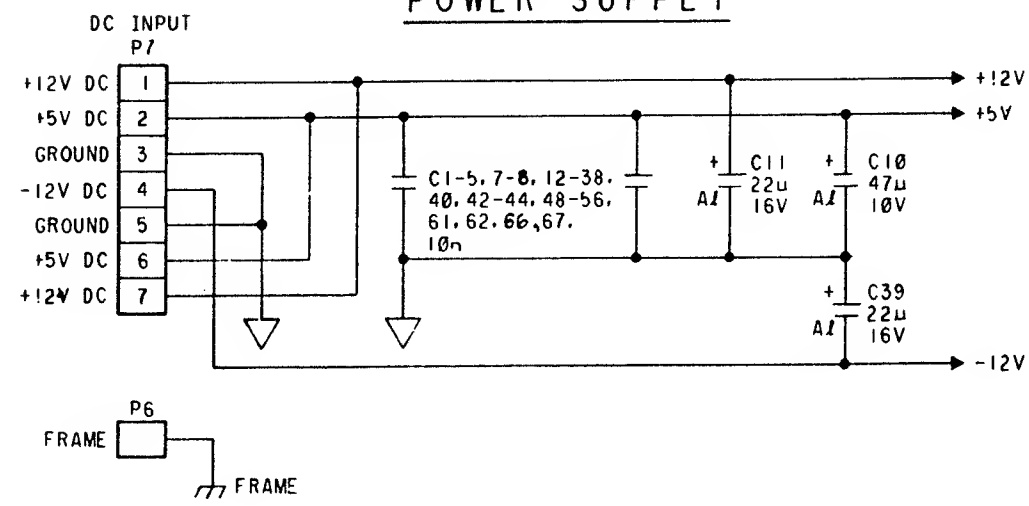


REV. NO.	1K00035	REV.	10	
PERIODS				
ZONE	REV.	DESCRIPTION	DATE	BY
	6	REVISED AND REDRAWN 4-21-83	4/22/83	JFK
	7	ADDED REWORK	4/27/83	JFK
	7	PKE PROD REL ECD # 532		
	8	CHANGE REF. DESIG. ECD 581		
	9	ADD CIRCUIT BETWEEN U825 & UF25 ECD 587 B/0061343		
	10	CHANGE R18 VALUE ECD #603	E/C 4/26/83	

### SPARE GATES

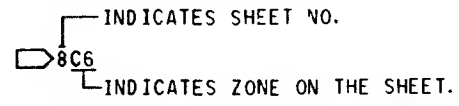


### POWER SUPPLY



POWER AND GROUND TABLE									
REF. DESIGNATION	TYPE NO.	GND	+5V	+12V	REF. DESIGNATION	TYPE NO.	GND	+5V	+12V
UE13	74LS393	7	14		UC20, UE4, UE20, UE24	74LS00	7	14	
UB23	74S04	7	14		UC21, UE6, UH15	74LS02	7	14	
UB21, UE21, UF15	74S08	7	14		UF8, UF9, UF10	74LS03	7	14	
UC19	74S32	7	14		UB4, UE2, UE7	74LS04	7	14	
UB24, UE22, UF25	74S74	7	14		UE15, UF17, UF19	74LS05	7	14	
UF16	74S86	7	14		UF11, UF14	74LS05	7	14	
UC18, UC25	74S161	8	16		UE12	74LS08	7	14	
UB25	74S175	8	16		UB22, UE18, UF18	74LS10	7	14	
UA6	74S374	10	20		UE23	74LS11	7	14	
UA18, UE25, UF7, UF22	7406	7	14		UE5	74LS20	7	14	
UA19	7407	7	14		UC23, UC24, UE11	74LS74	7	14	
UE8, UE9, UE10	7438	7	14		UE16, UF20, UF21	74LS109	8	16	
UF4, UF5	1488	7	14		UE3	74LS138	8	16	
UF1, UF2, UF6	1489A	7	14		UE14	74LS139	8	16	
UE1	4066	7	14		UA1, UB2, UF17	74LS157	8	16	
UD22	280A-CPU	29	11		UC13	74LS161	8	16	
UD8, UD12	6821	1	20		UC2, UC12, UC14, UC17	74LS166	8	16	
UB17	1793	20	21	40	UA13, UA17	74LS173	8	16	
UD4	280A-S10	31	9		UA8	74LS175	8	16	
UD18	2764	14	28		UC22, UE19	74LS244	10	20	
UD1	8253	12	24		UA7, UA10, UC10	74LS257	8	16	
UA14	9216B	4	8		UC11, UF12, UF13	74LS374	10	20	
UA11, UB12, UD15	6116	14	28		UC1, UC15, UC16				
UA3, UA4, UC3, UC6	6116	12	24		UA9, UC9				
	200NS								

- NOTES: UNLESS OTHERWISE SPECIFIED.
- ALL RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
  - ALL RESISTORS 4.7K.
  - ALL CAPACITANCE VALUES IN FARADS.
  - RAMS MUST OPERATE WITH WRITE PULSE WIDTH OF 125 NS.
  - IF UA20 IS USED, OMIT UA14.
  - LOCATIONAL CODING FOR SHEET TO SHEET CONNECTIONS:



THIS TRACE DOES NOT APPEAR ON BOARD. CONNECTION MUST BE COMPLETED USING JUMPER WIRE.

REFERENCE DESIGNATION	
LAST	NOT USED
C68	C9, C41
CN2	—
CR7	CR6
J13	J7
P13	P6
R26	R1, R3, R6-R9, R17
RN16	RN10
S1	—
X2	—

THIS TRACE MAY NOT BE ON SOME BOARDS, IF IT IS, CUT IT, OTHERWISE IGNORE THIS NOTE.

2K00073

OCC 2

DO NOT SCALE DRAWING

OSBORNE

COMPUTER CORPORATION

26538 DANTIS CT

HAYWARD, CALIFORNIA 94545

415-877-8888

DATE

3/83

SCALE

NONE

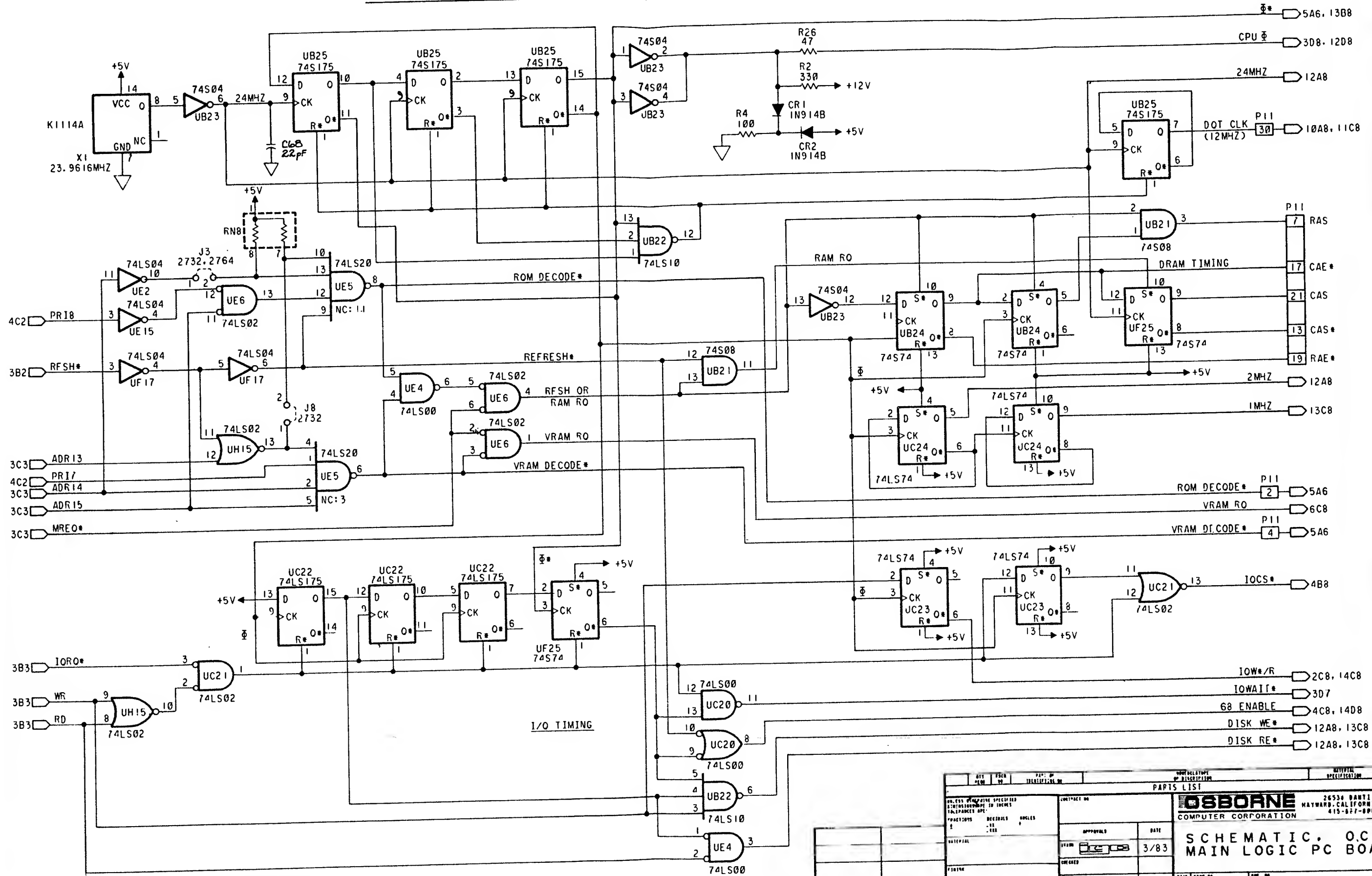
1K00035

10

1 OF 15

# OSCILLATOR, CPU, MEMORY AND I/O TIMING

REV	DATE	APPROVED
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4		
5		
6		
7		
8		
9		
10		



18MAR83 SUS DB0128

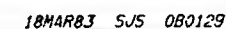
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1	1K00035	2
2	10	
3		
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9		
10		

OSBORNE  
COMPUTER CORPORATION

SCHEMATIC, O.CC2  
MAIN LOGIC PC BOARD

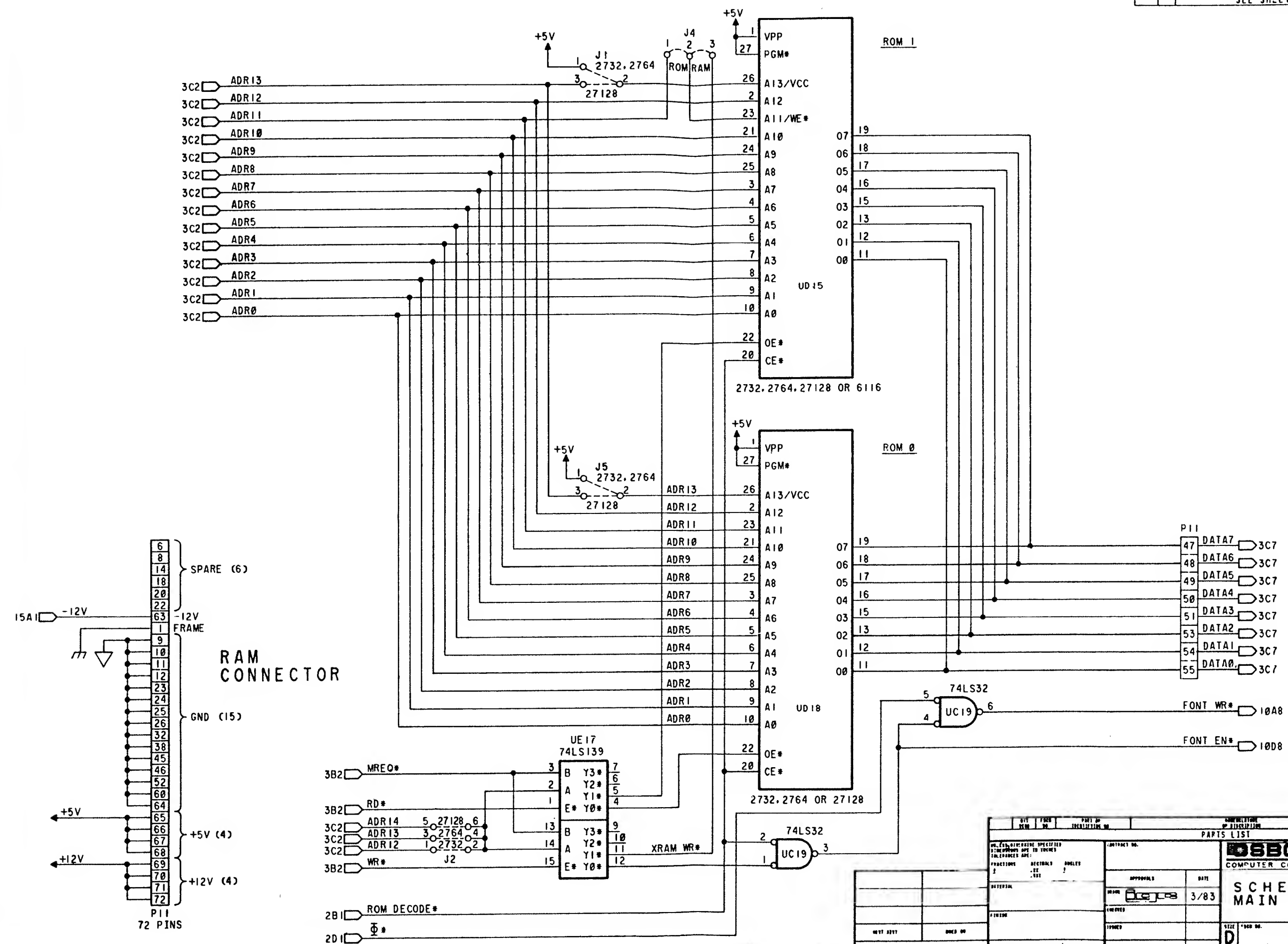
DATE 3/83  
PAGE 10  
REV 10

2 OF 15



S C H E M A T I C ,    O C C 2  
M A I N   L O G I C   P C   B O A R D

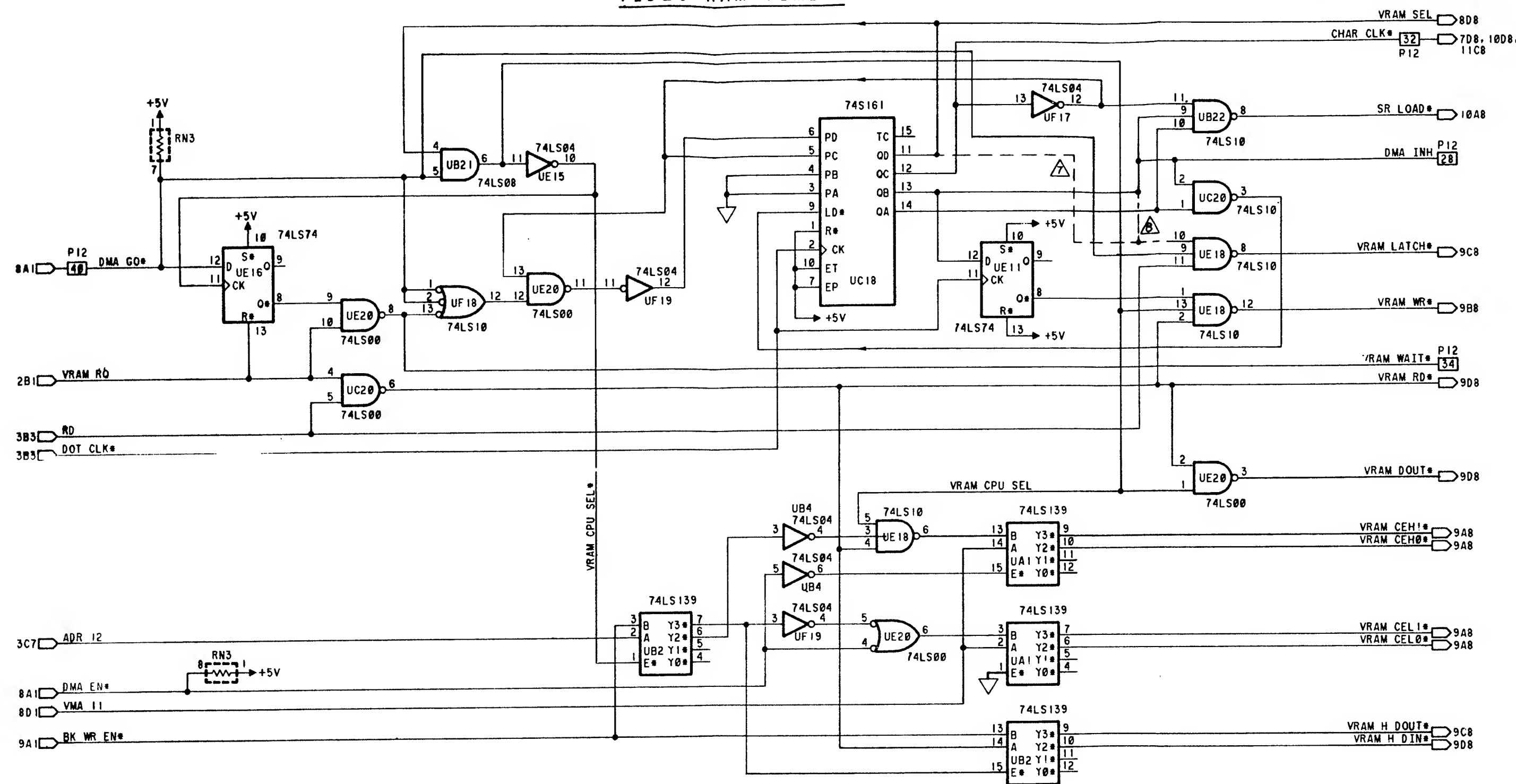





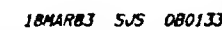
PARTS LIST		<b>OSBORNE</b> COMPUTER CORPORATION 26530 BANTU CT HAYWARD, CALIFORNIA 94545 415-887-0000	
SCHEMATIC, OCC2 MAIN LOGIC PC BOARD		3/83 1K00035 10	

18MAR83 SJS 080131

## VIDEO RAM TIMING

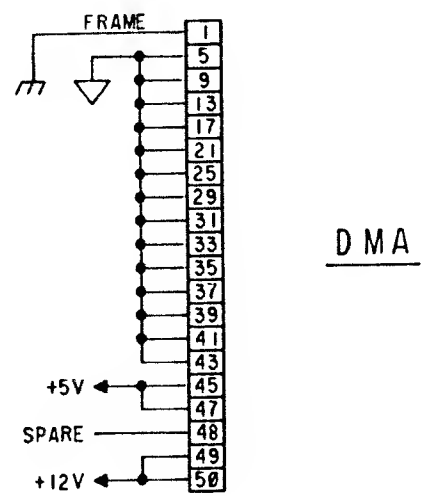
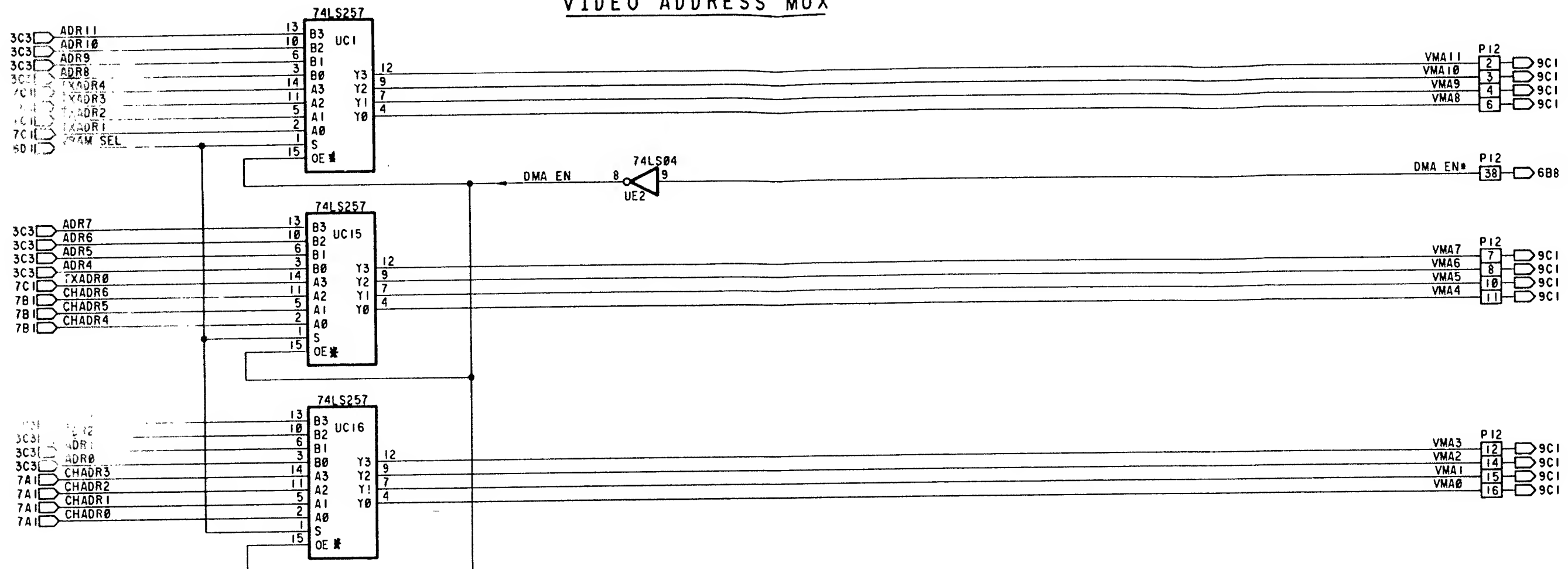


REV		DATE	BY	DESCRIPTION	REVISION	DATE	BY	DESCRIPTION
PARTS LIST								
ALL DIMENSIONS SPECIFIED UNLESS OTHERWISE NOTED UNLESS OTHERWISE NOTED UNLESS OTHERWISE NOTED				PART NO. 20330 BANT CT HAYWARD, CALIF 94545 415-887-8888		<b>OSBORNE</b> COMPUTER CORPORATION		
DIMENSIONS 2 DECIMALS .01 .005				APPROVED 		DATE 3/83		SCHEMATIC, OCC 2 MAIN LOGIC PC BOARD
MATERIAL				PART NO.		SIZE		
FINISH				PART NO.		SIZE		
NEXT ASST		USED NO		APPLICATION		DO NOT SCALE DRAWING		SCALE NONE
								1K00035
								6 OF 15



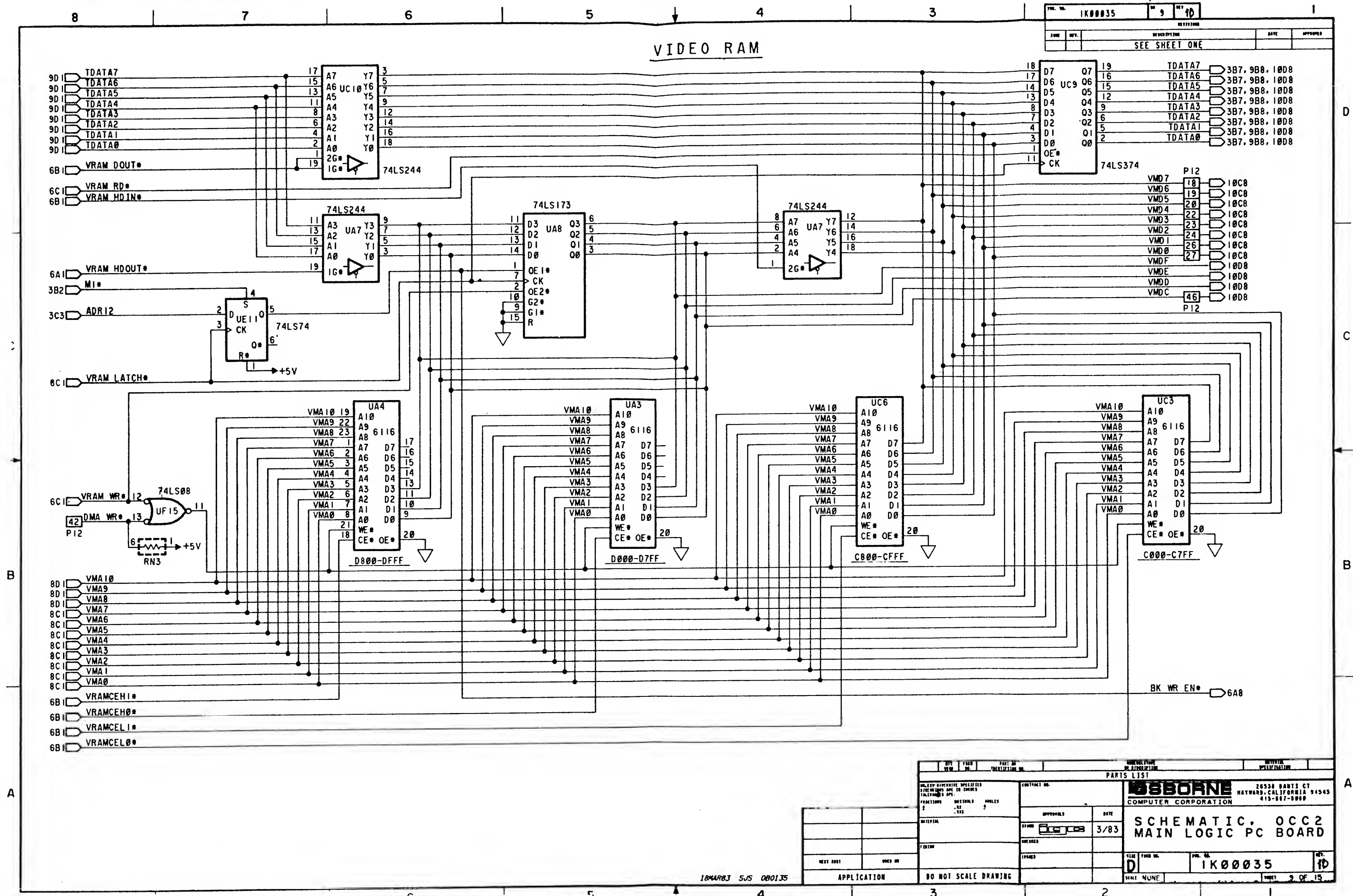


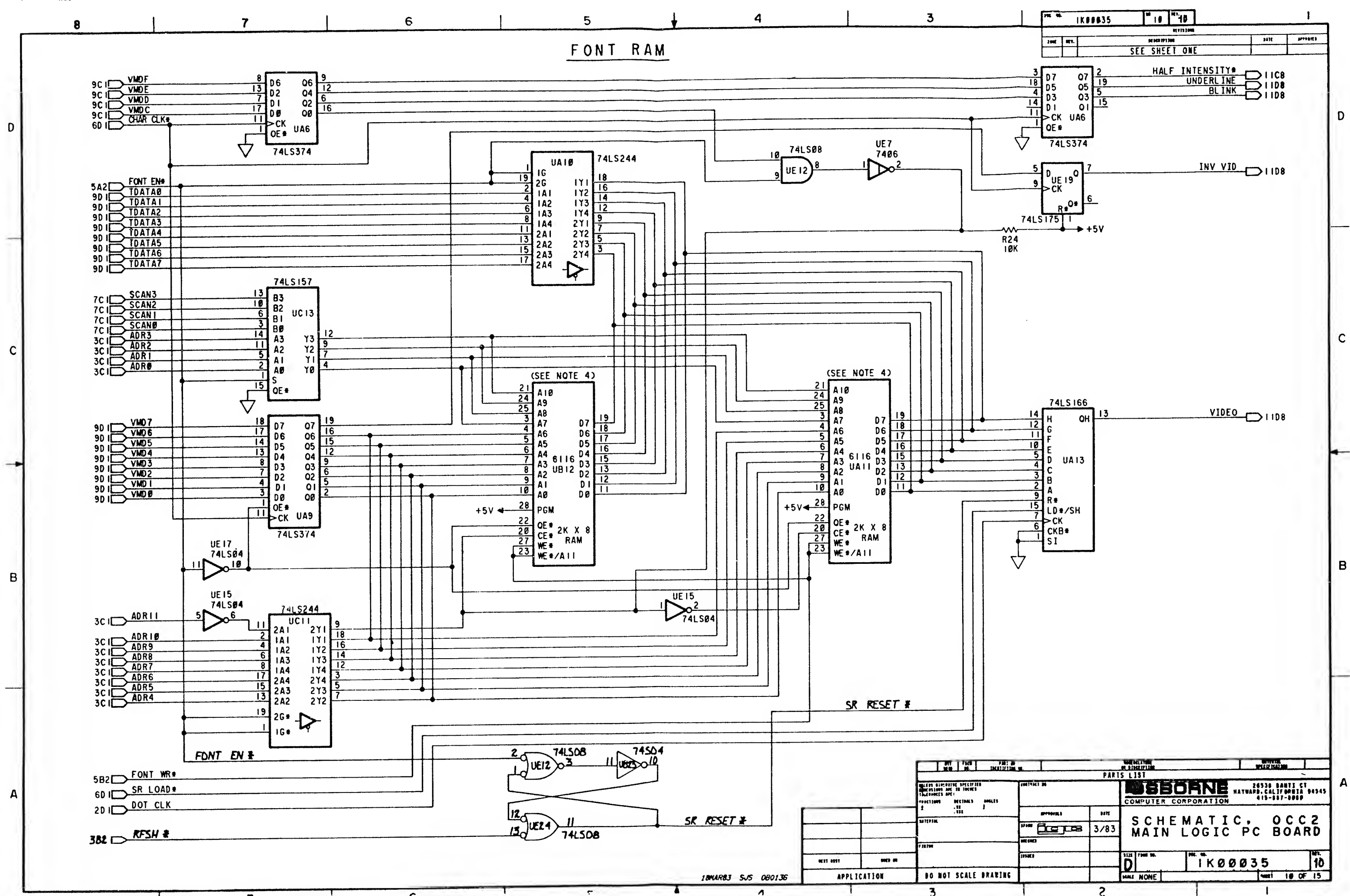
VIDEO ADDRESS MUX



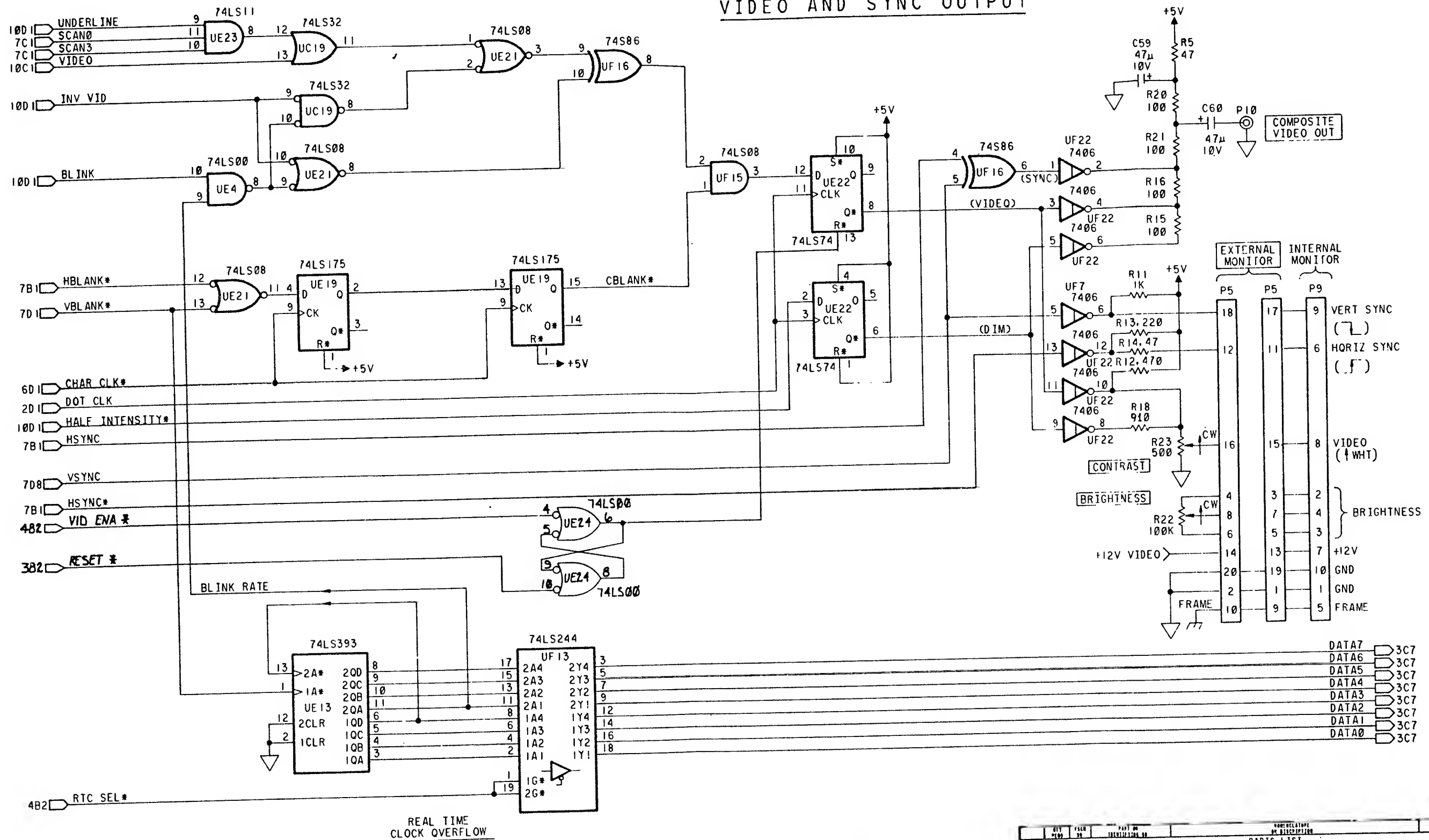
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OSBORNE COMPUTER CORPORATION	
26530 BARTI CT HAYWARD, CALIFORNIA 94545 415-887-0000	
SCHEMATIC, OCC2 MAIN LOGIC PC BOARD	
DATE 3/83	
1K00035	
PAGE 8 OF 15	






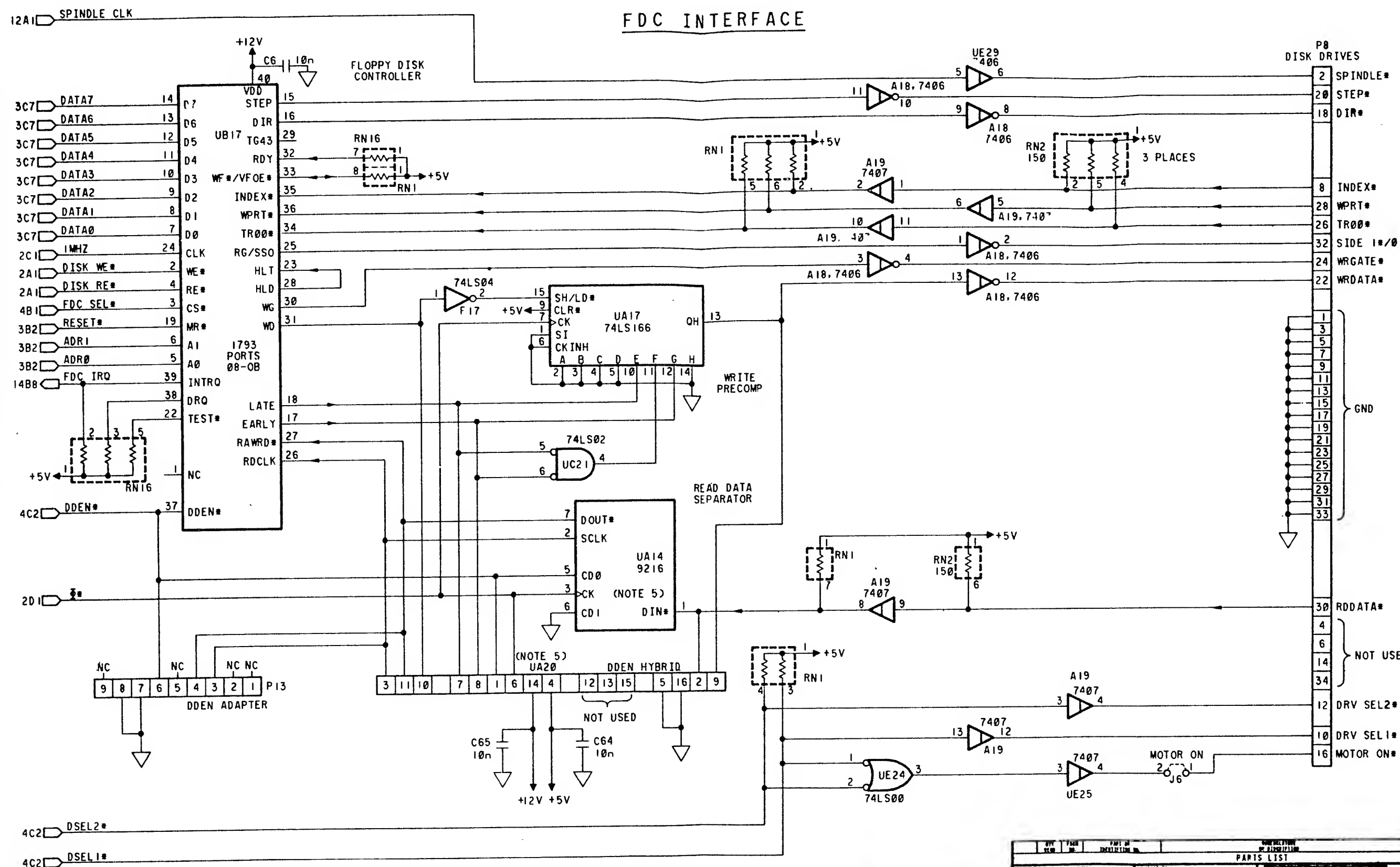



## VIDEO AND SYNC OUTPUT



DTG 0109		FSCD 29		PART ON 18101717100 00		NUMBER/CLASS OF DISPOSITION		MATERIAL SPECIFICATION	
PARTS LIST						OSBORNE COMPUTER CORPORATION			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS    DECIMALS    ANGLES ±                    ±                    ±				CONTRACT NO.		26530 BANTI CT HAYWARD, CALIFORNIA 94545 415-817-8988			
MATERIAL				APPROVALS		DATE		SCHEMATIC, OCC 2 MAIN LOGIC PC BOARD	
FINISH				PART NO. 		3/83		SIZE FROM NO.    DWG NO.    PKY D                    1K000035    10	
DO NOT SCALE DRAWING				CHECKED		SCALE NONE		SHEET 11 OF 15	
ISSUED				SCALE NONE		SCALE NONE		SHEET 11 OF 15	





QTY SPEC	PCB NO.	PART NO.	DATE PCB 01/20/77 JIM	REV PCB 01/20/77 JIM
PARTS LIST				
ALL LOT OTHERS SPECIFIED 1/20/77 JIM ARE TO BE USED (IN PLACE) ARE:		26530 BANTI CT MAYWOOD, CALIFORNIA 945 415-887-0000		
*FRACTIONS	DECIMALS	ANGLES	<b>OSBORNE</b> COMPUTER CORPORATION	
1/2	.50	90	SCHEMATIC, OCC2 MAIN LOGIC PC BOARD	
INITIAL	APPROVALS	DATE		
		3/83		
PRINTED	ONE COPY			
	ISSUED			
DO NOT SCALE DRAWING		SIZE	FORM NO.	REV. NO.
		D		1K00035
		SCALE NONE	PAGE 13 OF 15	



# 488 / PARALLEL INTERFACE

- |     |           |    |        |     |   |
|-----|-----------|----|--------|-----|---|
| 3C7 | DATA7     | 26 | D7     | PA7 | 9 |
| 3C7 | DATA6     | 27 | D6     | PA6 | 8 |
| 3C7 | DATA5     | 28 | D5     | PA5 | 7 |
| 3C7 | DATA4     | 29 | D4     | PA4 | 6 |
| 3C7 | DATA3     | 30 | D3     | PA3 | 5 |
| 3C7 | DATA2     | 31 | D2     | PA2 | 4 |
| 3C7 | DATA1     | 32 | D1     | PA1 | 3 |
| 3C7 | DATA0     | 33 | D0     | PA0 | 2 |
|     | +5V       | 22 | CS0    | PA3 | 5 |
|     |           | 24 | CS1    | PA2 | 4 |
| 4B2 | 488 SEL*  | 23 | CS2*   | PA1 | 3 |
| 2A1 | 68 ENABLE | 25 | E      | PA0 | 2 |
| 3C3 | ADR0      | 36 | RS0    | PA0 | 2 |
| 3C3 | ADR1      | 35 | RS1    | PA0 | 2 |
| 3B3 | RESET*    | 34 | RESET* | PA0 | 2 |
| 2B1 | IOW*/R    | 21 | R/W*   | PA0 | 2 |

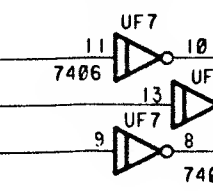
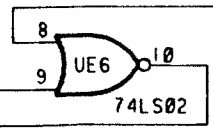
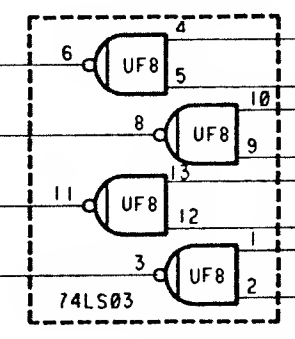
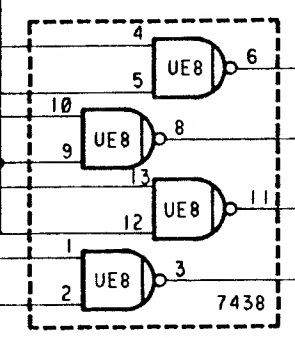
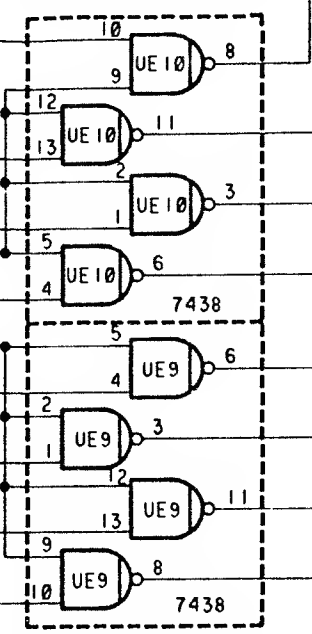
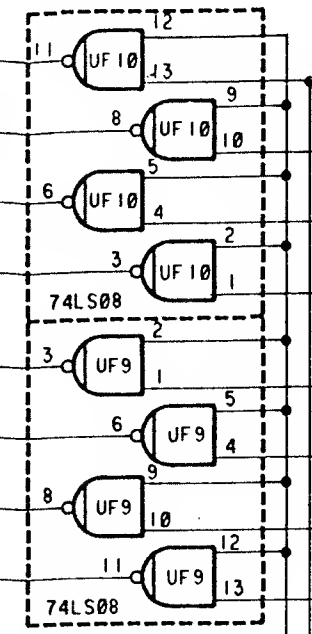
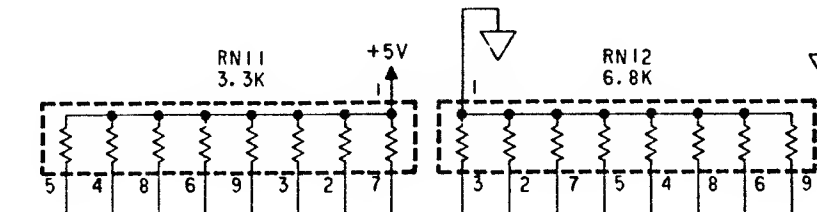
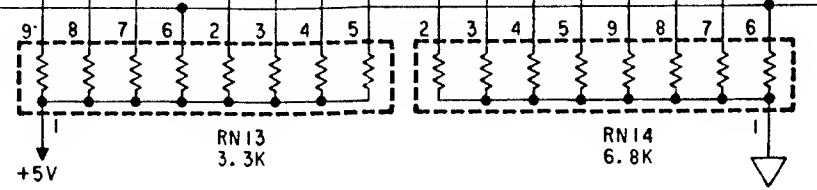
- |      |        |    |       |
|------|--------|----|-------|
| 3D8  | IRQ*   | 38 | IRQA* |
|      |        | 37 | IRQB* |
| 13C8 | FDICRO | 18 | CB1   |

6821 PIA

- |     |    |       |
|-----|----|-------|
| PB2 | 12 |       |
| PB1 | 11 |       |
| CA1 | 40 | (SRO) |
| PB4 | 14 | (ATN) |
| CA2 | 39 | (IFC) |
| CB2 | 19 | (REN) |

- |    |           |
|----|-----------|
| 16 | DI08      |
| 15 | DI07      |
| 14 | DI06      |
| 13 | DI05      |
| 4  | DI04      |
| 3  | DI03      |
| 2  | DI02      |
| 1  | DI01      |
| 18 | DAV GND   |
| 19 | NRFD GND  |
| 20 | NDAC GND  |
| 21 | IFC GND   |
| 22 | SRO GND   |
| 23 | ATN GND   |
| 24 | LOGIC GND |
| 12 | SHIELD    |
| 8  | NDAC      |
| 5  | EOI       |
| 6  | DAV       |
| 7  | NRFD      |
| 10 | SRO       |
| 11 | ATN       |
| 9  | IFC       |
| 17 | REN       |

P3 IEEE 488



PARTS LIST		DATE		APPROVED	
OSBORNE COMPUTER CORPORATION		3/83		SCHEMATIC, OCC2 MAIN LOGIC PC BOARD	
20530 PARTS CT HAYWARD, CALIFORNIA 94545 415-887-0000		SIZE		REV. 10	
D		NONE		14 OF 15	

